

=> d his

(FILE 'HOME' ENTERED AT 15:30:12 ON 13 NOV 2001)
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:30:28 ON 13 NOV 2001

E FLUORESCEIN/CN

L1 1 S E3
SEL RID
L2 10236 S E1
L3 10 S L2 AND AS/ELS
E .BETA.-ALANINE/CN
L4 1 S E3
L5 807 S L2 AND SQL/FA
L6 800 S L5 AND PROTEIN/FS
L7 7 S L5 NOT L6
L8 0 S L2 AND 107-95-9/CRN
E 1, 2-ETHANEDIOL/CN
L9 1 S E3
E DITHIOTHERITOL/CN
L10 1 S E4
E C4H10O2S2/MF
L11 5 S E3 AND 2 3 BUTANEDIOL
E DIMERCAPTOPROPANESULFONATE/CN
E DIMERCAPTO PROPANESULFONATE/CN
E PROPANESULFONATE/CN

FILE 'HCAPLUS' ENTERED AT 15:36:03 ON 13 NOV 2001

E VALE R/AU
L12 121 S E3, E4, E7-E11
E THRON K/AU
E THORN K/AU
L13 29 S E3-E5, E11, E12
E COOKE R/AU
L14 306 S E3-E20
E COOKE ROGER/AU
L15 116 S E3-E6
E MATUSKA M/AU
L16 4 S E3, E4
E NABER N/AU
L17 21 S E3-E6
L18 570 S L12-L17
L19 3815 S L1
L20 17627 S FLUORESCEIN
L21 4 S L18 AND L19, L20
L22 2 S L21 AND ?ARSEN?
SEL RN

FILE 'REGISTRY' ENTERED AT 15:39:12 ON 13 NOV 2001

L23 34 S E1-E34
L24 6 S L2 AND L23
L25 2 S L23 AND AS/ELS
L26 7 S L24, L25
L27 27 S L23 NOT L26
L28 3 S L27 AND (6/SQL OR 17/SQL)
L29 2 S L28 NOT NCNC2/ES
L30 6 S L9-L11
L31 3 S L27 AND (C4H10O2S2 OR C3H8O3S3 OR C2H6S2)
L32 7 S L30, L31
L33 4 S L3 AND 2/AS

FILE 'HCAPLUS' ENTERED AT 15:45:28 ON 13 NOV 2001

L34 8 S L33
L35 2 S L34 AND L18
L36 2 S L22, L35
L37 8 S L34-L36

Point of Contact:
Jan DeGraaf

Librarian-Physical Sciences
CM1 1E09 Tel: 308-4498

L38 1 S L37 AND (L4 OR BETA ALANINE)
 L39 2 S L37 AND L32
 L40 2 S L37 AND L29

FILE 'HCAPLUS' ENTERED AT 15:47:56 ON 13 NOV 2001
 S CC..CC/SQSP

FILE 'REGISTRY' ENTERED AT 15:48:03 ON 13 NOV 2001
 L41 837 S CC..CC/SQSP

FILE 'HCAPLUS' ENTERED AT 15:48:10 ON 13 NOV 2001
 L42 500 S L41
 L43 3 S L42 AND L37
 L44 8 S L37-L40, L43
 L45 57 S L19, L20 AND ?ARSEN?

FILE 'REGISTRY' ENTERED AT 15:49:28 ON 13 NOV 2001
 E AS/ELS
 L46 65636 S E3 NOT L3

FILE 'HCAPLUS' ENTERED AT 15:49:52 ON 13 NOV 2001
 L47 53 S L46 AND L19, L20
 L48 76 S L45, L47
 L49 3 S L48 AND L42
 L50 3 S L48 AND L32
 L51 9 S L44, L49, L50
 SEL HIT RN

FILE 'REGISTRY' ENTERED AT 15:52:04 ON 13 NOV 2001
 L52 48 S E1-E48
 L53 5 S L52 AND L1, L2
 L54 1 S L52 AND L4
 L55 3 S L52 AND L32
 L56 39 S L52 NOT L53-L55
 L57 4 S L56 AND L41

=> fil reg
 FILE 'REGISTRY' ENTERED AT 15:56:19 ON 13 NOV 2001
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2001 American Chemical Society (ACS)

STRUCTURE FILE UPDATES: 12 NOV 2001 HIGHEST RN 369354-32-5
 DICTIONARY FILE UPDATES: 12 NOV 2001 HIGHEST RN 369354-32-5

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

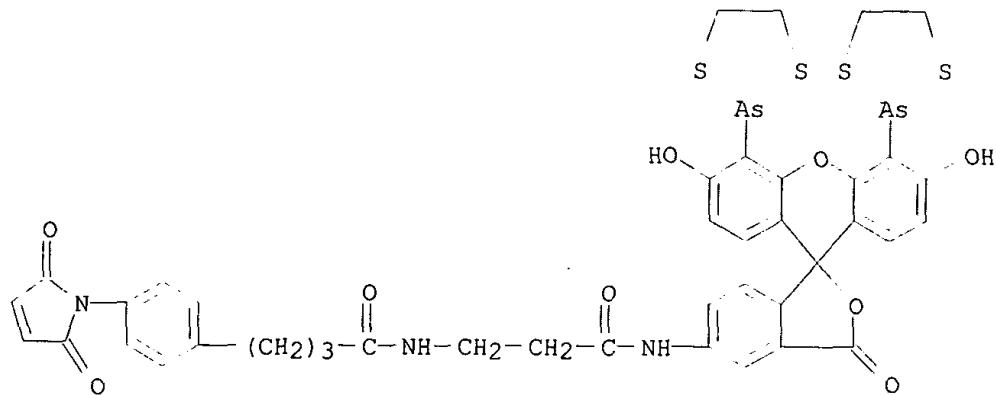
Crossover limits have been increased. See HELP CROSSOVER see
 HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES
 for more information. See STNote 27, Searching Properties in the CAS
 Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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L53 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2001 ACS
 RN 311797-39-4 REGISTRY
 CN Benzenebutanamide, N-[3-[(4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-
 dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]amino]-3-
 oxopropyl]-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)- (9CI) (CA INDEX
 NAME)

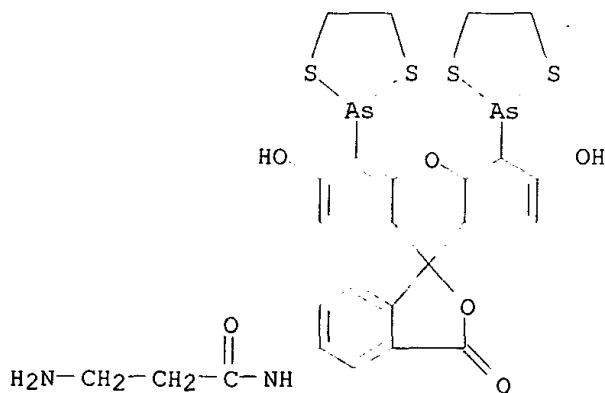
MF C41 H35 As2 N3 O9 S4
 SR CA
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:27295

L53 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2001 ACS
 RN 268741-25-9 REGISTRY
 CN Propanamide, 3-amino-N-[4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]- (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN 2: PN: WO0153325 PAGE: 49 claimed sequence
 CN 3: PN: WO0153325 PAGE: 49 claimed sequence
 MF C27 H24 As2 N2 O6 S4
 SR CA
 LC STN Files: CA, CAPLUS



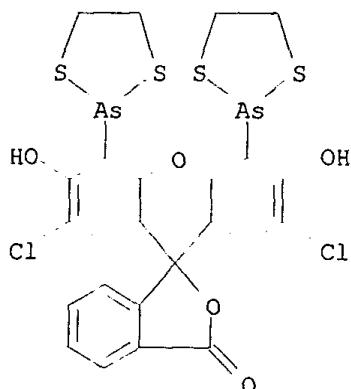
2 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:149588

REFERENCE 2: 132:344976

L53 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2001 ACS
 RN 223673-83-4 REGISTRY

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',7'-dichloro-4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-dihydroxy- (9CI) (CA INDEX NAME)
 MF C24 H16 As2 Cl2 O5 S4
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



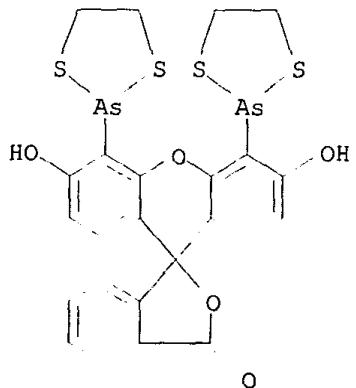
1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:308804

L53 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2001 ACS
 RN 212118-77-9 REGISTRY
 CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-dihydroxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN FLASH
 CN F1AsH-EDT2
 CN Fluorescein arsenical helix binder
 MF C24 H18 As2 O5 S4
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL



5 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:175077

REFERENCE 2: 134:66121

REFERENCE 3: 130:308804

REFERENCE 4: 130:150455

REFERENCE 5: 129:200138

L53 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2001 ACS

RN 2321-07-5 REGISTRY

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-dihydroxy- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Fluorescein (8CI)

OTHER NAMES:

CN 3',6'-Dihydroxyfluoran

CN 3',6'-Fluorandiol

CN 3,6-Dihydroxyspiro[xanthene-9,3'-phthalide]

CN 9-(o-Carboxyphenyl)-6-hydroxy-3-isoxantheneone

CN Benzoic acid, 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)-

CN C.I. 45350:1

CN C.I. Solvent Yellow 94

CN D and C Yellow No. 7

CN Fluorescein acid

CN Japan Yellow 201

CN Japan Yellow No. 201

CN Resorcinolphthalein

CN Solvent Yellow 94

CN Yellow fluorescein

AR 518-45-6

FS 3D CONCORD

DR 126605-73-0, 213880-86-5

MF C20 H12 O5

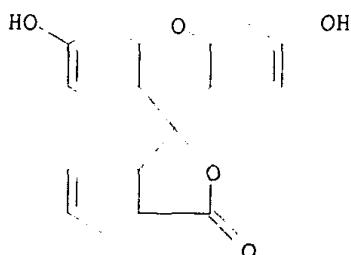
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXLIT, TULSA, USAN, USPATFULL, VTB

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3798 REFERENCES IN FILE CA (1967 TO DATE)

841 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3809 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:312834

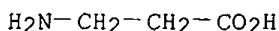
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REFERENCE 3: 135:302553

REFERENCE 4: 135:300686
 REFERENCE 5: 135:300676
 REFERENCE 6: 135:300593
 REFERENCE 7: 135:300567
 REFERENCE 8: 135:300482
 REFERENCE 9: 135:300290
 REFERENCE 10: 135:299473

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L54 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
 RN 107-95-9 REGISTRY
 CN .beta.-Alanine (6CI, 8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN .beta.-Aminopropanoic acid
 CN .beta.-Aminopropionic acid
 CN .omega.-Aminopropionic acid
 CN 2-Carboxyethylamine
 CN 3-Aminopropanoic acid
 CN 3-Aminopropionic acid
 CN Abufene
 CN Propanoic acid, 3-amino-
 FS 3D CONCORD
 DR 87867-95-6
 MF C3 H7 N O2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE,
 GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
 NAPRALERT, NIOSHTIC, PROMT, SPECINFO, SYNTHLINE, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4873 REFERENCES IN FILE CA (1967 TO DATE)
 392 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 4879 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

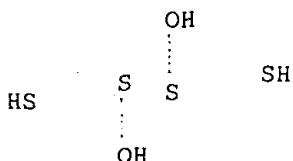
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 REFERENCE 2: 135:289030
 REFERENCE 3: 135:288559
 REFERENCE 4: 135:288105
 REFERENCE 5: 135:284379
 REFERENCE 6: 135:282370

REFERENCE 7: 135:277460
 REFERENCE 8: 135:273221
 REFERENCE 9: 135:273175
 REFERENCE 10: 135:269042

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L55 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2001 ACS
 RN 3483-12-3 REGISTRY
 CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (9CI) (CA INDEX
 NAME)
 OTHER CA INDEX NAMES:
 CN 2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-
 CN Threitol, 1,4-dithio- (7CI, 8CI)
 OTHER NAMES:
 CN (.-.-)-1,4-Dimercapto-2,3-butanediol
 CN (.-.-)-Dithiothreitol
 CN 1,4-Dithio-DL-threitol
 CN 1,4-Dithiothreitol
 CN Cleland's reagent
 CN Dithiothreitol
 CN DL-1,4-Dimercapto-2,3-dihydroxybutane
 CN DL-1,4-Dithiothreitol
 CN DL-Dithiothreitol
 CN DTT
 CN DTT (threitol derivative)
 CN rac-Dithiothreitol
 CN Reagents, Cleland's
 CN Sputolysin
 CN threo-1,4-Dimercapto-2,3-butanediol
 CN threo-2,3-Dihydroxy-1,4-butanedithiol
 CN WR 34678
 FS STEREOSEARCH
 DR 27565-41-9, 28823-08-7, 214119-27-4
 MF C4 H10 O2 S2
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
 BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS,
 CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA,
 PROMT, RTECS*, SPECINFO, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3944 REFERENCES IN FILE CA (1967 TO DATE)
 61 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3951 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:300667
 REFERENCE 2: 135:296102
 REFERENCE 3: 135:288428
 REFERENCE 4: 135:287802
 REFERENCE 5: 135:285360
 REFERENCE 6: 135:284923
 REFERENCE 7: 135:284891
 REFERENCE 8: 135:284831
 REFERENCE 9: 135:282976
 REFERENCE 10: 135:280378

L55 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2001 ACS
 RN 540-63-6 REGISTRY
 CN 1,2-Ethanedithiol (6CI, 8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:

CN 1,2-Dimercaptoethane
 CN 1,2-Ethylenedithiol
 CN 2-Mercaptoethanethiol
 CN a-Ethylene dimercaptan
 CN Dithioethylene glycol
 CN Dithioglycol
 CN Ethylene dimercaptan
 CN Ethylene dithioglycol
 CN Ethylene glycol, dithio-
 CN Ethylenedithiol
 CN s-Ethylene dimercaptan
 FS 3D CONCORD
 MF C2 H6 S2
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD,
 CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, DETHERM*,
 DIPPR*, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE,
 MRCK*, MSDS-OHS, RTECS*, SPECINFO, SYNTHLINE, TOXLIT, TRCTHERMO*,
 USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

HS-CH₂-CH₂-SH

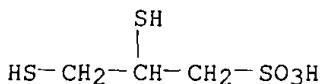
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 1714 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 34 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:303597
 REFERENCE 2: 135:289812
 REFERENCE 3: 135:288323

REFERENCE 4: 135:257352
 REFERENCE 5: 135:257222
 REFERENCE 6: 135:257182
 REFERENCE 7: 135:256819
 REFERENCE 8: 135:211083
 REFERENCE 9: 135:210601
 REFERENCE 10: 135:195379

L55 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2001 ACS
 RN 74-61-3 REGISTRY
 CN 1-Propanesulfonic acid, 2,3-dimercapto- (7CI, 8CI, 9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN (.-.)-2,3-Dimercapto-1-propanesulfonic acid
 CN 2,3-Dimercapto-1-propanesulfonic acid
 CN 2,3-Dimercaptopropanesulfonic acid
 CN DL-2,3-Dimercaptopropane-1-sulfonic acid
 FS 3D CONCORD
 DR 88031-93-0
 MF C3 H8 O3 S3
 CI COM
 LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,
 CAOLD, CAPLUS, CASREACT, CHEMINFORMRX, CSCHEM, CSNB, DDFU, DRUGU,
 EMBASE, IPA, MRCK*, NIOSHTIC, RTECS*, TOXLIT, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

223 REFERENCES IN FILE CA (1967 TO DATE)
 38 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 223 REFERENCES IN FILE CAPLUS (1967 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:172207
 REFERENCE 2: 135:162413
 REFERENCE 3: 135:149588
 REFERENCE 4: 135:42007
 REFERENCE 5: 135:30115
 REFERENCE 6: 134:306290
 REFERENCE 7: 134:51018
 REFERENCE 8: 133:130988
 REFERENCE 9: 133:85389
 REFERENCE 10: 132:32023

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L57 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2001 ACS
 RN 352206-69-0 REGISTRY
 CN Peptide, (Cys-Cys-Xaa-Xaa-Cys-Cys) (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE
 SQL 6
 NTE

type	----- location -----	description
uncommon	Aaa-3	-
uncommon	Aaa-4	-

SEQ 1 CCXXCC
 =====
 HITS AT: 1-6
 MF Unspecified
 CI MAN
 SR CA
 LC STN Files: CA, CAPLUS
 1 REFERENCES IN FILE CA (1967 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:149588

L57 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2001 ACS
 RN 268741-28-2 REGISTRY
 CN L-Alanine, L-tryptophyl-L-.alpha.-glutamyl-L-alanyl-L-alanyl-L-alanyl-L-arginyl-L-.alpha.-glutamyl-L-alanyl-L-cysteinyl-L-cysteinyl-L-arginyl-L-.alpha.-glutamyl-L-cysteinyl-L-cysteinyl-L-alanyl-L-arginyl- (9CI) (CA INDEX NAME)

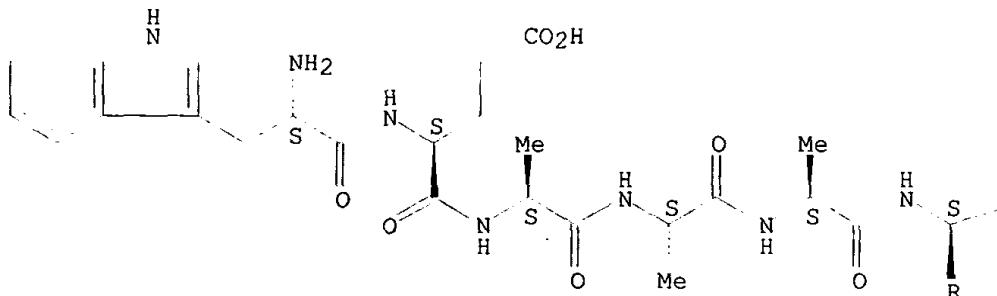
OTHER NAMES:

CN 46: PN: WO0114578 PAGE: 38 unclaimed sequence
 CN 4: PN: WO0047220 SEQID: 48 unclaimed sequence
 CN 9: PN: WO0153325 PAGE: 32 claimed sequence
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 17

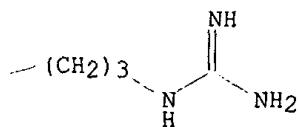
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 HITS AT: 9-14
 MF C74 H119 N27 O24 S4
 SR CA
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

Absolute stereochemistry.

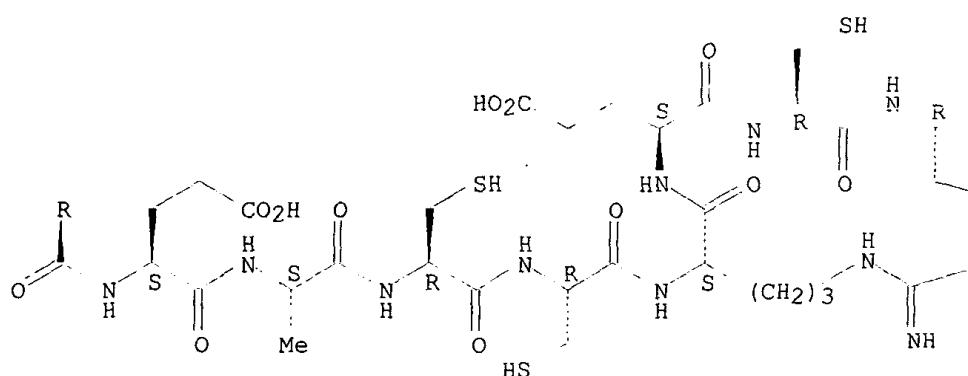
PAGE 1-A



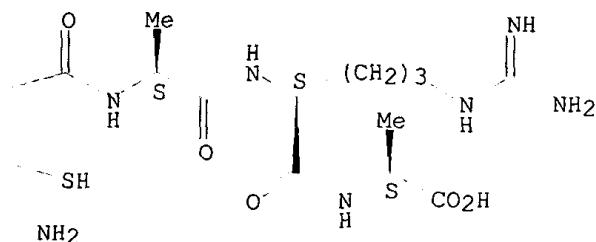
PAGE 1-B



PAGE 2-A



PAGE 2-B



4 REFERENCES IN FILE CA (1967 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:149588

REFERENCE 2: 134:204756

REFERENCE 3: 133:172215

REFERENCE 4: 132:344976

L57 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2001 ACS

RN 223673-79-8 REGISTRY

CN L-Alanine, L-alanyl-L-.alpha.-glutamyl-L-alanyl-L-alanyl-L-alanyl-L-
 arginyl-L-.alpha.-glutamyl-L-alanyl-L-cysteinyl-L-cysteinyl-L-arginyl-L-.
 alpha.-glutamyl-L-cysteinyl-L-cysteinyl-L-alanyl-L-arginyl- (9CI) (CA
 INDEX NAME)

OTHER NAMES: